

Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

August 2004

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Aviation Academy Director and Student Receive Awards

Curtis J. Grant

Founder and Director of the Aviation Academy



Whittington W. Clement (1), Virginia Secretary of Transportation, presents Aviation Academy Director Curtis J. Grant (r) with the 2004 Virginia Aviation Person of the Year award. (see page 7 for details)

Jodi Balido

2004 John R. Lillard Aviation Scholarship Award Recipient



Jodi Balido (l), a 2004 graduate of the Aviation Academy, is congratulated by Ken Brammer (r) of Delta Airport Consultants after receiving the 2004 John R. Lillard Aviation Scholarship Award sponsored by the Virginia Airport Operators Council. (see page 5 for details)

PRESIDENT'S NOTES

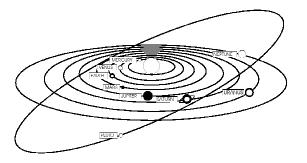
The NASA Langley Research Center's Office of Education (OEd) is working in collaboration with the Virginia Department of Aviation, and the Virginia Department of Education to maintain two way communication between federal and state education efforts.

The Experiment Aircraft Association (EAA) is offering many attractive activities for students and teachers; they can be reached at the following site: eaa.org/education.html. The Young Eagle's program volunteers have flown over 1 million students and are trying to continue their goal of flying more students. The Young Eagles web site is as follows: www.youngeagles.org/

The AirVenture 2004 with KidVenture (student/teacher/parent) activities were a huge success, with over 25,000 participants during 7/27- 8/02/04, in Oshkosh, WI. Pete Thomas managed the NASA education efforts of three agency and six undergraduate students from Oklahoma State University.

AIAA has openings for positions for teachers to become "Educator Associates". The benefits are as follows: Participation in local AIAA activities, attend AIAA conferences free, tap into AIAA clearinghouse of aerospace information, gain recognition for efforts in education and lastly, qualify for up to a \$200 grant to push your science, math, or related academic agenda forward. They have developed innovative programs for obtaining an AIAA Foundation Education Classroom Aid Grant. For information contact: Lisa Bacon, 703-264-7500, 800-639-2422, ext. 527 Fax: 703-264-7657 or e-mail lisab@aiaa.org. The application download can be reached at the following: www.aiaa.org/pdf/student/edassocapp.pdf

Peter D. Thomas (ViGYAN, Inc.) Aerospace Education Programs Manager Office of Education NASA Langley Research Center



VASEF AVIATION EDUCATION NEWS

is published quarterly in support of aviation education in the Commonweath of Virginia by the Virginia Department of Aviation.

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VASEFPURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

2005 International Aviation Art Contest

Theme for 2005 Contest is

"Create an Air Show Poster: More Than 100 Years of Human Flight"

THIS YEAR'S DEADLINE

Entries must be postmarked by January 10, 2005, and must be sent to the Virginia Department of Aviation (see address below). **ELIGIBILITY**

All children in the age groups shown below are encouraged to participate in the Contest, even if they are related to officials or employees of the FAI or any of its member organizations.

AGE GROUPS

Entries will be judged in three classes (determined by the age of the entrant on December 31, 2004).

I. Ages 6 to 9; II. Ages 10 to 13; III. Ages 14 to 17

STATE AWARDS

Entries in each age group will be judged and state winners and runners-up will be selected. Winners will receive a certificate and recognition from their state. The top three entries in each age group will be forwarded to Washington, D.C., to participate in the national competition.

NATIONAL AWARDS

A national winner and two runners-up will be selected from each age group. All national winners will receive a certificate, ribbon, and a framed reproduction of their artwork.

INTERNATIONAL AWARDS

The national winners and runners-up in each age group will be forwarded to FAI headquarters for international judging. Winners of the international competition will receive certificates and gold, silver, or bronze medals.

ARTWORK DIMENSIONS

Artwork size should be 11x17 inches. Due to international criteria, 8.5x11entries are NOT eligible. Artwork must NOT be framed, mounted, or outlined with borders.

MEDIUM

All artwork must be hand made using any of the following media: Watercolor, acrylic or oil paints, indelible markers, colored pencils, felt-tippens, soft ball-point pens, indelible ink, Crayola, or similar indelible mediums. The following media are NOT permitted: Pencil, charcoal or other nonpermanent medium, computer generated artwork, or collage work involving the use of photocopies.

CERTIFICATION

A parent, guardian or art teacher must certify the authenticity of artwork and the age of each artist. (U.S. judges will issue certificates of authenticity to national winners for international competition.)

REPRODUCTION RIGHTS

Once received, entries will become and remain the property of the Federation Aeronautique Internationale (FAI) or state sponsor and may be used for a variety of purposes.

SPONSORS

The 2005 International Aviation Art Contest is sponsored by the National Aeronautic Association, National Association of State Aviation Officials, National Aeronautics and Space

Administration, and the Federal Aviation

Administration, in cooperation with the Federation Aeronautique Internationale (FAI), to motivate and encourage young people of FAI member nations to become more familiar with and participate in aeronautics, engineering, and science.

About the Theme:

For more than 100 vears, men and women have been taking to the air and delighting those on the ground. Across the world, people have gathered in open fields and airports large and small to see aircraft old and new, aerobatic pilots spinning and diving their planes in the sky, beautiful hot air balloons floating over the land, parachutists descending to the earth under colorful canopies, and microlights competing in precision flying contests.



For 100 years, the Federation

Aeronautique Internationale (FAI) has been there to encourage both the love of aviation and the thrill of competition. Many participants and visitors come simply to see the wonderful aircraft and meet other aviation enthusiasts. Others come for the competition.

It is now your turn to become a part of this century long tradition by creating an air show poster. It should celebrate the adventure of human flight that has long been promoted by the FAI. Design a poster that will attract families and individuals, children and grandparents, and everyone inbetween. Showcase the action, excitement and fun at the open fields and airports where pilots and their aircraft amaze and entertain millions of people each year.

For more information:

Virginia Department of Aviation Attn: Betty P. Wilson 5702 Gulfstream Road Richmond, Virginia 23250 Brochures are being printed and will be mailed to schools in October.

SAFECON 2004

The National Intercollegiate Flying Association's (NIFA) SAFECON 2004 took place April 27 - May 1, 2004 at Middle Tennessee State University in Murfreesboro, Tennessee. First place in this competitive event for college and university aviation teams went to the University of North Dakota.

Thirty competing schools (with a total of approximately 400 aviators) qualified for this event to determine collegiate aviation's national champions. In order to receive an invitation to compete schools must have successfully competed at a regional event.

Schools compete in four flying events and seven ground events. School points are earned by students who place in the top 10 of each event.

Virginia was represented at SAFECON 2004 by Hampton University which had placed third at the NIFA Region 10 competition held last November.

Plane Pull 2004 at Dulles

The annual Dulles Day Family Festival took place at Washington Dulles International Airport on September 18. Sponsored by the Metropolitan Washington Authority Police Department to raise money for the Special Olympics Virginia, the highlight of the festival is the annual Plane Pull. Now in it's twelth year, the Plane Pull features teams of twenty people pulling a 150,000 lb. aircraft 12 feet on the cargo ramp at Dulles. It is a timed event and the quickest teams win. The Fastest Pull Winner for 2004 was the Fairfax County Sheriff's Office. The event generally attracts more than 60 teams who donate \$1,000 each to Special Olympics in order to compete.

Admission for the public was free. In addition to the Plane Pull, family events included aircraft on display, a car show, live musical entertainment, food and beverages, and activities for the children.



Summer Transportation Institute

The 10th Annual Summer Transportation Institute took place June 13-July 7, 2004 at Virginia State University. Middle school students once again had the opportunity to learn about transportation careers as well as get a taste of college life while living in the dorms at VSU.

The Virginia Department of Aviation worked with VSU to put together a number of aviation-related experiences for the students. Activities taking place this year included a field trip to the Udvar-Hazy Center at Dulles International Airport. Students also spent two afternoons





building and flying Delta Dart model aircraft. And once again this year a full day was spent in the Newport News/ Williamsburg area beginning with a visit to the Aviation Academy at Newport News/ Williamsburg Airport; a presentation by Mr. Paul E. Storer of the Transportation Security Administration; and a tour of the terminal by Sarah Sager, Manager of Marketing and Public Affairs for the airport In the afternoon the group had lunch at Williamsburg-Jamestown Airport where airport manager, Jean Waltrip, spoke to them about operating a general aviation airport. The "high" point of the day came as students took orientation flights of the Williamsburg area.

National Air and Space Museum Calendar

Wednesday, October 20, 2004, 12:00 - 12:15 p.m.

Curator's Choice

The M2-F3 Lifting Body and the "Six Million Dollar Man"

Bob Craddock

National Air and Space Museum Free

Wednesday, November 3, 2004, 12:00-12:15 p.m.

Curator's Choice

Wandering the Surface of Mars: The Rovers Spirit and Opportunity Dr. John Grant

Milestones of Flight Gallery National Air and Space Museum Free

Friday, November 5, 2004, 8:00 p.m.
VADM Donald D. Engen Annual Lecture
U. S. Army Helicopter Operations
8th Annual Flight Jacket Night
CW4 Michael J. Durant U.S. Army (Ret.)
National Air and Space Museum

Wednesday, November 10, 2004, 12:00-12:15 p.m.

Curator's Choice Around the World in 175 days: The Douglas World Cruiser Jeremy Kinney

National Air and Space Museum Free

<u>Wednesday, November 17, 2004, 12:00-</u> 12:15 p.m.

Curator's Choice The Wright Brothers Bicycle and Its Connections to Flight Peter Jakab

National Air and Space Museum Free

Now Open:

National Air and Space Museum Steven F. Udvar-Hazy Center

Located at the Washington Dulles International Airport, the Udvar-Hazy Center will house 200 aircraft and 135 large space artifacts including the Space Shuttle Enterprise, SR-71 Blackbird, and B-29 Superfortress Enola Gay.

For more information visit: www.nasm.si.edu.

2005 Aviation Teachers Grant Program

The 2005 Virginia Department of Aviation Teachers Grant Program offers grants of up to \$250.00 to public school teachers in grades K-12. The grants must be used to purchase materials for or otherwise support lesson plans that utilize aviation concepts.

Aviation can be integrated into almost any subject to motivate students to learn and teachers from many different disciplines have benefitted from these grants in previous years.

Application forms for this year's grants will be mailed to schools in October with a deadline for submission in early December. Applications will also be available on the Department of Aviation's web site (www.doav.virginia.gov).

2004 John R. Lillard Aviation Scholarship Award Recipient - Jodi Balido

The John R. Lillard Aviation Scholarship Award, a \$1500.00 scholarship sponsored by the Virginia Airport Operators Council, is presented to a Virginia High School senior planning to continue their education at an institution of higher learning in pursuit of an aviation career.

The 2004 Lillard Scholarship recipient was Jodi Balido, a student at the Aviation Academy at Newport News/Williamsburg International Airport.

Jodi Santa Ana Balido was born in Ypsilanti, Michigan, moved to Richmond, Virginia when he was 3 and then to Newport News a couple of years later. Jodi entered the Aviation Academy in the 9th grade where he received the Aviation Ace award each year for having the highest GPA in his class. He was also one of the top 10 students in the entire senior class of Denbigh High School (where aviation students take some of their classes). He completed an internship at the Thomas Jefferson Accelerator Facility which, under the Department of Energy,

conducts research on particle acceleration. In addition to his interest in aviation, he is a very well rounded young man who participated in the Spanish club, Chess club, Denbigh High School tennis team, national honor society, Philippine-American Community of the Peninsula Youth Group, and Church Youth Group.

Jodi was officially presented with his scholarship at an awards ceremony held at the Aviation Academy this past May. He is now attending Embry-Riddle Aeronautical University pursuing a degree in Aerospace Engineering and hopes to work for a major aircraft manufacturing company upon graduation.



Applications for the 2005 John R. Lillard Scholarship Award Program should be available in October of this year. They will be mailed to public high schools in Virginia and will be posted on the Virginia Department of Aviation 's web site www.doav.virginia.gov.



VIRGINIA AVIATION MUSEUM CALENDAR

Through October 23, 2004

Lindbergh's Return to Richmond

Examine aircraft types associated with Lindbergh's aviation background plus period memorabilia generated by his trans-Atlantic flight.

November 13, 2004

The Virginia Aviation Hall of Fame Induction Ceremony

For reception and dinner registration call (804) 222-8690.

November 13, 2004

Outta Sight Flight

Girl Scouts can earn their Junior Aerospace Activity badge. Explore early air travel, how things fly, women in aviation and space exploration.

December 4, 2004 Wright Symposium

On December 17, 1903, aviation became a reality. Two brothers managed the first sustained, controlled flight in a powered aircraft. Now hear the experts discuss the race to be the first. Call (804) 236-

3622 for reservations and information.

December 11, 2004

Wright Brothers Celebration

Celebrate the invention of powered flight. Follow the history of Wilbur and Orville's struggle to fly through reproductions of their gliders and the famous 1903 Flyer. Participate in hands-on activities.

The Virginia Aviation Museum is located at the entrance to Richmond International Airport. For additional information on museum hours and programs call (804) 236-3622.

Aviation Education Corner

NASA Student Competitions

High School Level Competition

NASA Langley Research Center's Aeronautics Directorate announces a new high school student competition for the 2004-2005 school year. The competition challenges students to characterize societal impacts resulting from widespread use of Personal Air Vehicles in the year 2030.

Teams or individuals from the US or its territories (public, private, or home-schooled students) are encouraged to submit an entry. The best entries will be selected for awards, but type of awards will be based on the availability of funds. Awards could include small cash prizes, guided visits to a NASA facility, student internships with NASA mentors, certificates of accomplishment, or attendance at a national aviation event such as AirVenture. Internships, cash prizes, and tours of government facilities would be restricted to US Citizens.

Students should submit a well-written, focused paper that describes how our future society might adapt to the widespread use of Personal Air Vehicles (PAVs). Underlying assumptions students should consider include: futuristic personal air vehicles are easy to use, are self-operated, safe to operate, fuel-efficient, less noisy than today's aircraft, less polluting than today's aircraft, and more affordable than today's aircraft. These futuristic assumptions are based on successful research and development programs begun in 2005 and tested with demonstrator aircraft every 5 years over the next 15 years, to prove the new technologies can be used by industry. Student projections should also assume a vibrant U.S. economy, plentiful energy resources, and an increased societal value for transportation that reduces travel time.

In order to compete students need to provide a letter of intent to NASA by January 15, 2005.

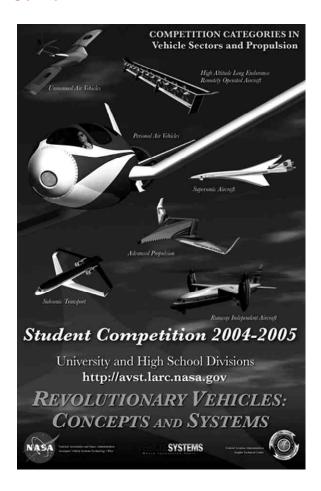
Entries are due not later than April 15, 2005.

Winners will be notified prior to May 15, 2005.

University Level Competition

This year there will be only one category of vehicle for students to discuss, the Exploration Air Vehicle or EAV. The EAV is a class of autonomous, unmanned aircraft that can perform diverse types of missions on Earth or on other planets. Entries will characterize the technologies and systems required for the successful operation of EAVs regardless of environment where deployed. Students may define any mission they choose in order to characterize their vehicle and its systems. All missions must be defined using: flight time to station, time on station, flight time back to home base, time between missions, altitude maximums, propulsion and fuel type, weather conditions, terrain, weight of vehicle and payload, and others that students might want to include.

For complete information about both competitions visit the NASA Aerospace Vehicle Systems Technology Office web site at http://avst.larc.nasa.gov



Chesterfield County Airport Festival & Airshow

The Chesterfield County Airport Festival & Airshow will take place at the Chesterfield County Airport October 23-24, 2004 from 9:00 a.m. to 5:00 p.m. each day. A replica of the 2003 Wright Flyer will be on display. Attendees will



also have the opportunity to meet a Tuskegee Airman.

Each day an airshow will take place beginning at 1:00 p.m. Among the scheduled performers are Patty Wagstaff, Iron Eagles Aerobatics, Trojan Horeseman T-28 Squadron, Flying Farmer Comedy Routine, A Landing on the "Worlds Shortest Runway," radio controlled aircraft demonstrations, Aerial Adventure Parachute Teams, World War II and Vintage aircraft, and possible military jet fly-bys. Discounted airplane rides will be available in the morning before the airshow begins.

For more information visit http://www.dominionaviation.com/ airshow/

Curtis J. Grant Selected as Aviation Person of the Year

Curtis J. Grant, founder and director of the Aviation Academy, a high school magnet program of Newport News Public Schools, was selected as the 2004 Aviation Person of the Year in Virginia. Mr. Grant, who has been with the program since it began in 1994, received his award at the Virginia Aviation Awards Banquet held during the 31st Annual Virginia Aviation Conference. The banquet took place on Thursday, August 26, 2004 at the Hotel Roanoke and Conference Center in Roanoke, Virginia.



Rotary Aviation Career Day

The Rotary Clubs of Henrico East, Mechanicsville, New Kent, and Sandston are sponsoring the 19th Annual "Aviation Career Day" at Richmond International Airport on Wednesday, October 27, 2004 from 8:30 a.m. - 2:00 p.m.

High school students from the city of Richmond and surrounding counties who have been selected by their school, and will be accompanied by a school counselor, will have the opportunity to listen to a dynamic speaker from NASA and talk with a variety of

representatives from the civilian, military, and governmental aviation communities. There will also be military and civil aircraft on display.

The program will take place at the Richmond Jet Center and is held in partnership with the Richmond International Airport operational staff, the Richmond Flight Standards



District Office (FAA), the Virginia Department of Aviation, and the Virginia Aviation Museum.

Lousia Toys for Tots Program

Louisa County Airport/Freeman Field will be a sponsor of the Marines Toys for Tots Program again this year. Starting November 13, 2004, unwrapped toys will be collected Monday - Saturday from 8:30 a.m. - 5:00 p.m. and on Sundays from 10:00 a.m. - 5:00 p.m. The deadline for collection of toys is December 13th. Call Dawn Pickhardt, Airport Manager, at (540) 967-0050 with any questions about the program.



SCIENCE MUSEUM OF VIRGINIA CALENDAR

EXHIBITIONS

Mary Morton Parsons Earth-Moon Sculpture (kugel) - Permanent MarsQuest (thru January 2, 2005)

IMAX FILMS

Forces of Nature Space Station Shackleton's Antarctic Adventure

MULTIMEDIA SHOWS

Mars Mania

<u>LIVESKY</u>: Informal "live" planetarium presentation of the month's celestial events. Third Friday of every month (except Oct.)

SKYWATCH: Third Friday of every month (weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000 Box Office: (804) 367-1080 24-Hour Skywatch Information: (804) 367-8277 24-Hour TDD Information: (804) 367-9760 General Information - TDD: (804) 367-6552 Group Scheduling: (804) 367-6552 Home Page: http://www.smv.org

VIRGINIA AIR AND SPACE CENTER CALENDAR

EXHIBITS:

Adventures in Flight Gallery

TRAVELLING EXHIBITS:

Robotics - thru Jan. 2, 2005 Aliens: Worlds of Possibilities - opening Jan. 29, 2005)

IMAX FILMS:

Space Station 3D Forces of Nature T-REX 3D

The Polar Express (opens Nov. 10)
Fighter Pilot: Operation Red Flag (opens Dec. 9)

LIVE SCIENCE DEMONSTRATIONS

Star Station One: International Space Station Learn about the International Space Station, the international community that's getting it together, and the many steps involved in the process.

Call (804) 727-0900 for showtimes

Visit the Center's Home Page: http://www.vasc.org

Calendar of Events

October 9, 2004

Airfest 2004 will be held at the Culpeper Regional Airport in Brandy Station, VA, from 10:00 a.m. - 4:00 p.m. Airfest includes an air show, food, static aircraft displays, etc. For more information call Tanya Woodward at (540) 825-8280 or visit www.culpepercounty.gov.

October 18-19, 2004

New Market Balloon Festival will be held at New Market Airport from 7:00 a.m. - 4:00 p.m. For more information contact Robert Thomas at (540) 740-9454.

October 25, 2004

AOPA Air Safety Seminar "Ups & Downs of Takeoffs and Landings" will take place at Dominion Aviation on Chesterfield County Airport beginning at 7:00 p.m. Sponsored by the Virginia Department of Aviation, FAA Aviation Safety Program, AOPA Air Safety Foundation, Richmond FSDO, and Charleston FSDO. For more information call 1-800-638-3101 or log onto www.asf.org.

October 26, 2004

AOPA Air Safety Seminar "Ups & Downs of Takeoffs and Landings" will take place at the Virginia Air & Space Center in Hampton beginning at 7:00 p.m.

October 27, 2004

AOPA Air Safety Seminar "Ups & Downs of Takeoffs and Landings" will take place at Germanna Community College in Fredericksburg beginning at 7:00 p.m.

October 28, 2004

AOPA Air Safety Seminar "Ups & Downs of Takeoffs and Landings" will take place at Virginia Highlands Airport in Abingdon, Virginia beginning at 7:00 p.m.

For more events visit: http://www.doav.virginia.gov/calendar.htm.

Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.
Regular Membership \$25.00 annually (July - Dec. \$12.50)
Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)
Corporate Membership \$100.00 annually (July - Dec. \$50.00)
New Member Renewal
Date:
Name:
Name of Organization:
Occupation:
Address:
City: State Zip
Telephone
Please Return to: Tom Tyndall, VASEF Treasurer 5702 Gulfstream Road Richmond, Virginia 23250-2422



VASEF Aviation Education News

5702 Gulfstream Road Richmond, Virginia 23250-2422

Inside:

- Award Recipients
- 2005 Teachers

Grants

- 2005 Int'l Aviation Art

Contest

Presorted Standard U.S. POSTAGE PAID Richmond, Va Permit No. 949

Please Post for Teachers